

Claims

[c1]

An isolated nucleic acid having at least 80% nucleic acid sequence identity to:

(a) a nucleic acid sequence encoding the polypeptide shown in Figure 78 (SEQ ID NO: 78);

(b) a nucleic acid sequence encoding the polypeptide shown in Figure 78 (SEQ ID NO: 78), lacking its associated signal peptide;

(c) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 78 (SEQ ID NO: 78);

(d) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 78 (SEQ ID NO: 78), lacking its associated signal peptide;

(e) the nucleic acid sequence shown in Figure 77 (SEQ ID NO: 77);

(f) the full-length coding sequence of the nucleic acid sequence shown in Figure 77 (SEQ ID NO: 77); or

(g) the full-length coding sequence of the cDNA deposited under ATCC accession number 203240.

[c2]

The isolated nucleic acid of Claim 1 having at least 85% nucleic acid sequence identity to:

(a) a nucleic acid sequence encoding the polypeptide shown in Figure 78 (SEQ ID NO: 78);

(b) a nucleic acid sequence encoding the polypeptide shown in Figure 78 (SEQ ID NO: 78), lacking its associated signal peptide;

(c) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 78 (SEQ ID NO: 78);

(d) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 78 (SEQ ID NO: 78), lacking its associated signal peptide;

(e) the nucleic acid sequence shown in Figure 77 (SEQ ID NO: 77);

(f) the full-length coding sequence of the nucleic acid sequence shown in Figure 77 (SEQ ID NO: 77); or

(g) the full-length coding sequence of the cDNA deposited under ATCC accession number 203240.

[c3]

The isolated nucleic acid of Claim 1 having at least 90% nucleic acid sequence identity to:

- (a) a nucleic acid sequence encoding the polypeptide shown in Figure 78 (SEQ ID NO: 78);
- (b) a nucleic acid sequence encoding the polypeptide shown in Figure 78 (SEQ ID NO: 78), lacking its associated signal peptide;
- (c) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 78 (SEQ ID NO: 78);
- (d) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 78 (SEQ ID NO: 78), lacking its associated signal peptide;
- (e) the nucleic acid sequence shown in Figure 77 (SEQ ID NO: 77);
- (f) the full-length coding sequence of the nucleic acid sequence shown in Figure 77 (SEQ ID NO: 77); or
- (g) the full-length coding sequence of the cDNA deposited under ATCC accession number 203240.

[c4]

The isolated nucleic acid of Claim 1 having at least 95% nucleic acid sequence identity to:

- (a) a nucleic acid sequence encoding the polypeptide shown in Figure 78 (SEQ ID NO: 78);
- (b) a nucleic acid sequence encoding the polypeptide shown in Figure 78 (SEQ ID NO: 78), lacking its associated signal peptide;
- (c) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 78 (SEQ ID NO: 78);
- (d) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 78 (SEQ ID NO: 78), lacking its associated signal peptide;
- (e) the nucleic acid sequence shown in Figure 77 (SEQ ID NO: 77);
- (f) the full-length coding sequence of the nucleic acid sequence shown in Figure 77 (SEQ ID NO: 77); or
- (g) the full-length coding sequence of the cDNA deposited under ATCC accession number 203240.

[c5]

The isolated nucleic acid of Claim 1 having at least 99% nucleic acid sequence identity to:

- (a) a nucleic acid sequence encoding the polypeptide shown in Figure 78 (SEQ ID NO: 78);

- (b)a nucleic acid sequence encoding the polypeptide shown in Figure78 (SEQ ID NO:78), lacking its associated signal peptide;
- (c)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure78 (SEQ ID NO:78);
- (d)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure78 (SEQ ID NO:78), lacking its associated signal peptide;
- (e)the nucleic acid sequence shown in Figure 77 (SEQ ID NO:77);
- (f)the full-length coding sequence of the nucleic acid sequence shown in Figure 77 (SEQ ID NO:77); or
- (g)the full-length coding sequence of the cDNA deposited under ATCC accession number 203240.

[c6]

- An isolated nucleic acid comprising:
- (a)a nucleic acid sequence encoding the polypeptide shown in Figure78 (SEQ ID NO:78);
 - (b)a nucleic acid sequence encoding the polypeptide shown in Figure78 (SEQ ID NO:78), lacking its associated signal peptide;
 - (c)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure78 (SEQ ID NO:78);
 - (d)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure78 (SEQ ID NO:78), lacking its associated signal peptide;
 - (e)the nucleic acid sequence shown in Figure 77 (SEQ ID NO:77);
 - (f)the full-length coding sequence of the nucleic acid sequence shown in Figure 77 (SEQ ID NO:77); or
 - (g)the full-length coding sequence of the cDNA deposited under ATCC accession number 203240.

[c7] The isolated nucleic acid of Claim 6 comprising a nucleic acid sequence encoding the polypeptide shown in Figure78 (SEQ ID NO:78).

[c8] The isolated nucleic acid of Claim 6 comprising a nucleic acid sequence encoding the polypeptide shown in Figure78 (SEQ ID NO:78), lacking its associated signal peptide.

[c9] The isolated nucleic acid of Claim 6 comprising a nucleic acid sequence

encoding the extracellular domain of the polypeptide shown in Figure78 (SEQ ID NO:78).

[c10] The isolated nucleic acid of Claim 6 comprising a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure78 (SEQ ID NO:78), lacking its associated signal peptide.

[c11] The isolated nucleic acid of Claim 6 comprising the nucleic acid sequence shown in Figure 77 (SEQ ID NO:77).

[c12] The isolated nucleic acid of Claim 6 comprising the full-length coding sequence of the nucleic acid sequence shown in Figure 77 (SEQ ID NO:77).

[c13] The isolated nucleic acid of Claim 6 comprising the full-length coding sequence of the cDNA deposited under ATCC accession number 203240.

[c14] An isolated nucleic acid that hybridizes to:

(a)a nucleic acid sequence encoding the polypeptide shown in Figure78 (SEQ ID NO:78);

(b)a nucleic acid sequence encoding the polypeptide shown in Figure78 (SEQ ID NO:78), lacking its associated signal peptide;

(c)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure78 (SEQ ID NO:78);

(d)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure78 (SEQ ID NO:78), lacking its associated signal peptide;

(e)the nucleic acid sequence shown in Figure 77 (SEQ ID NO:77);

(f)the full-length coding sequence of the nucleic acid sequence shown in Figure 77 (SEQ ID NO:77); or

(g)the full-length coding sequence of the cDNA deposited under ATCC accession number 203240.

[c15] The isolated nucleic acid of Claim 14, wherein said hybridization occurs under stringent conditions.

[c16] The isolated nucleic acid of Claim 14 which is at least 10 nucleotides in length.

[c17] A vector comprising the nucleic acid of Claim 1.

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| [c18] | The vector of Claim 17, wherein said nucleic acid is operably linked to control sequences recognized by a host cell transformed with the vector. |
| [c19] | A host cell comprising the vector of Claim 17. |
| [c20] | The host cell of Claim 19, wherein said cell is a CHO cell, an <i>E. coli</i> or a yeast cell. |